



United States Patent and Trademark Office

UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS P.O. Box 1450 Alexandria, Virginia 22313-1450 www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/916,288	07/30/2001	Mark A. Kirkpatrick	BS01-083	7809
7	590 04/19/2005		EXAM	INER
WITHERS & KEYS, LLC P.O. BOX 71355			NGUYEN, TRONG NHAN P	
MARIETTA, GA 30007-1355			ART UNIT	PAPER NUMBER
,			2152	

DATE MAILED: 04/19/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)				
·	09/916,288	KIRKPATRICK ET AL.				
Office Action Summary	Examiner	Art Unit				
	Jack P Nguyen	2152				
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply						
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).						
Status						
1) Responsive to communication(s) filed on 07 February 2005.						
2a)⊠ This action is FINAL . 2b)□ This action is non-final.						
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is						
closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.						
Disposition of Claims						
4)⊠ Claim(s) <u>1-41</u> is/are pending in the application.						
4a) Of the above claim(s) is/are withdrawn from consideration.						
5) Claim(s) is/are allowed.	5) Claim(s) is/are allowed.					
6)⊠ Claim(s) <u>1-41</u> is/are rejected.						
· · · · · · · · · · · · · · · · · · ·	7) Claim(s) is/are objected to.					
8) Claim(s) are subject to restriction and/or election requirement.						
Application Papers						
9) The specification is objected to by the Examiner.						
10) ☐ The drawing(s) filed on is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.						
Applicant may not request that any objection to the	drawing(s) be held in abeyance. See	e 37 CFR 1.85(a).				
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).						
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.						
Priority under 35 U.S.C. § 119						
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).						
a) All b) Some * c) None of:						
1. Certified copies of the priority documents have been received.						
2. Certified copies of the priority documents have been received in Application No						
 Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). 						
* See the attached detailed Office action for a list of the certified copies not received.						
The second detailed detailed detailed and a second deposition of the second detailed and the second de						
Attachment(s)						
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 4) Interview Summary (PTO-413) Paper No(s)/Mail Date						
2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)		ate Patent Application (PTO-152)				
Paper No(s)/Mail Date 6) Other:						
U.S. Patent and Trademark Office PTOL-326 (Rev. 1-04) Office Ac	tion Summary Pa	art of Paper No./Mail Date 04082005				

Application/Control Number: 09/916,288

Art Unit: 2152

DETAILED ACTION

This action is in response to Applicant's amendment filed on 2/7/05. Claims 1-41 are being examined.

Response to Arguments

Applicant's arguments filed on 2/7/05 have been fully considered but they are moot based on new grounds of rejection.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

Claims 1, 2, 10-11, 19-20, 31-32, 37-38 and 40 are rejected under 35 U.S.C. 102(e) as being anticipated by Sitaraman et al, 6,718,332 (Sitaraman hereafter).

As per claim 1, Sitaraman teaches a client-server computer system comprising: at least one client application server (16, 18, fig. 1; both source system (16, fig. 1) and target system (18, fig. 1) are client application servers; client application servers contain plurality of applications) that utilizes data in a form other than an initial form and

generates a manipulation request for manipulation of the data from the initial form wherein the request includes the data in the initial form (col. 1, lines 55-60; col. 4, lines 44-45; col. 8, lines 44-45; col. 8, lines 56-60; source system (16, fig. 1) sends a data manipulation request (data is in first format) via its source interface (26, fig. 1) to the target data adapter system 'TDA' (22, fig. 1) for conversion into second data format); an application server accessible by a plurality of client application servers via a plurality of application software protocols (col. 4, lines 13-17; Common Object Request Broker Architecture 'CORBA', Enterprise Application Integration 'EAI', etc. are examples of application software protocols), wherein said application server provides a data manipulation service on the data received from the client application server in response to receiving the manipulation request from the client application server and wherein the data manipulation service causes a change to the data to the form other than the initial form and returns (transmits) the changed data in the client application server (col. 8, lines 56-60; upon receiving the data manipulation request from the source system, the TDA (22, fig. 1) converts the data from the first format into a second format and transmits the converted data to the target system for storage and future use); a storage mass coupled to said application server for storing a system of dynamically maintainable manipulation functions for performing said manipulation service (14, fig. 1; col. 10, lines 32-34; TDA system stores the converted data in its database (14, fig. 1) for future use).

Claim 10 is rejected by similar rationale as claim 1. Sitaraman further discloses means for storing and dynamically maintaining a hierarchically-organized system of a

table-based system of manipulation rules coupled to said means for performing manipulation services wherein the manipulation rules are implemented by the means for performing manipulation services in order to change the data prior to returning it to each client application server (see claim 1 rejection; col. 8, lines 56-60; format converter (102, fig. 1) stores manipulation rules in its tables; data in the database is inherently organized in a hierarchically structure; format converter converts or transforms data from one format into another according to the client request).

As per claim 19, Sitaraman discloses a system for providing an application service, the system comprising: an application server that receives requests for data manipulation and that performs data manipulation to change data to a form other than an initial form and returns the changed data (see claim 1 rejection); a plurality of applications coupled to the application servers the plurality of applications utilizing the data in the form other than the initial form that the data is in prior to manipulation and sending the data in the initial form to the application server with the request for data manipulation (see claim 1 rejection; application servers contain a plurality of applications); one or more application programming interfaces 'API' (each application has an interface that allows it to communicate with other applications), the one or more application programming interfaces for coupling said plurality of applications and said application server and for passing the data manipulation requests and data via a plurality of computer network protocols (col. 6, lines 33-36; network protocol such as remote access dial-in user service protocol 'RADIUS' may be used by the applications to initiate data manipulation requests to be processed by the application server); and at

least one dynamically maintainable data schema coupled to said application server for providing access to data manipulation functions employed by the application server to cause the change to the data (col. 10, lines 32-34; application server stores data in its databases; databases are maintainable).

Claim 31 is rejected by similar rationale as claim 19.

As per claims 37 and 40, Sitaraman discloses a computer-readable medium storing a plurality of instructions adapted to be executed by a processor for providing an application service, the plurality of instructions comprising instructions to: receive a service request from a customer data device, the customer data device including data that is in an initial form to be manipulated into a form other than the initial form (see claim 1 rejection; col. 8, lines 44-45; TDA receives data manipulation request from source data adapter 'SDA' system); generate a service session instruction, the service session instruction based at least in part on the service request (col. 8, lines 47-49; SDA generates service request to send to TDA); send the service session instruction to one or more open application programming interfaces, the service session instruction corresponding to one or more data manipulation requests from said customer data device (col. 8, lines 44-45); retrieving a plurality of hierarchical dynamically maintained manipulation rules from a centralized storage mass coupled to said application server, the manipulation rules for changing the data from the initial form to the form other than the initial form (see claim 10 rejection); perform one or more manipulation functions based on stored rules in a data base to change the data from the initial form to the form other than the initial form (see claim 1 rejection; col. 8, lines 56-60; upon receiving data

manipulation request from client, the TDA, via its format converter process (102, fig. 1) converts the data from the first format into second format in accordance to the request); and send a manipulation service response to the customer data device that includes the changed data, the manipulation service response based on the service request (col. 10, lines 32-34; after processing the request, the TDA transmits the modified data to the client for storage and future use).

As per claims 2, 11, 20, 32, and 38, Sitaraman discloses storage mass comprises a database (col. 2, line 51).

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 3-9, 12-18, 21-35, and 39 are rejected under 35 U.S.C. 103(a) as being unpatentable over Sitaraman in view of Whitehead et al, 6,085,030 (Whitehead hereafter).

As per claim 3, Sitaraman does not explicitly disclose manipulation functions are represented by a storage schema in the form of Lightweight Directory Access Protocol (or LDAP). In a database schema structure, the users can easily access and retrieve data via the use of directory services. Hence, it would have obvious to one of ordinary skill in the art to use a directory service such as LDAP (col. 7, line 66) to access and

manipulate data files stored in the database (see Whitehead disclosure – col. 7, line 66).

As per claims 4-5, Sitaraman does not explicitly disclose database storage schema represented by LDAP represents a table-based system of rules organized into at least three hierarchically organized views. Whitehead discloses a directory service structure (Netware Directory Service 'NDS'; NDS is functionally equivalent to LDAP) that provides a plurality of hierarchically organized views (450, 460, 470, fig. 4B, col. 11, lines 9-16; component server, description repository container, and description type container represent the hierarchically views in a directory storage schema). Hence, it would have been obvious to one of ordinary skill in the art to store data broken down by hierarchical views to show the inter-relationships between the data.

As per claims 6-9, Sitaraman not explicitly disclose the application and database structure (represented in the form of LDAP) with hierarchically organized views are dynamically updateable by an external (remote) administrator. Whitehead discloses the database with its directory service can be manipulated by an external administrator (col. 13, lines 67 – col. 14, lines 7; administrator can dynamically manipulate and update all views and their individual components.) Hence, it would have been obvious to one of ordinary skill in the art to allow remote administration of services because the administrator can administer and update multiple systems that may be at different locations to save on support costs by increasing operational efficiency.

As per claims 12, 21, 33, and 39, they are rejected by similar rationale as claim

As per claims 13-14, 22-23, and 34-35, they are rejected by similar rationale as claims 4-5.

As per claims 15-18, 24-27, they are rejected by similar rationale as claims 6-9.

As per claims 28-29, it is well known in the art that information can be represented by a string of data.

Claims 36 and 41 are rejected under 35 U.S.C. 103(a) as being unpatentable over Sitaraman in view of Allen et al, 6,078,918 (Allen hereafter).

Claims 36 and 41 are rejected for similar reasons as claims 1 addressed above. Further, Whitehead does not teach data to be manipulated arranged in the form of hash table and can be updated remotely. However, Allen teaches data is indexed and arranged in the form of a hash table (520, fig. 5C, col. 10, lines 60-62). Hence, it would have been obvious to one of ordinary skill in the art to be motivated modify and combine the teachings of Whitehead and Allen to index data in the form of a hash table to perform quick lookups and searches as disclosed by Allen in [col. 10, lines 65-66] and provide remote administration capability so the administrator can manage multiple systems located at different locations to save on support costs.

Claims 11-14, 20-23, 32-35, 38-39 are rejected for similar reasons as claims 2-5 addressed above.

Claims 15, 16, 24, and 25 are rejected for similar reasons as claims 6-7 addressed above.

Claims 17, 18, 26 and 27 are rejected for similar reasons as claims 8-9 addressed above.

Conclusion

Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Jack P Nguyen whose telephone number is (571) 272-3945. The examiner can normally be reached on M-F 8:30-5:00 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Glenton Burgess can be reached on (571) 272-3949. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Application/Control Number: 09/916,288

Art Unit: 2152

Page 10

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

jpn

Dung C. Clar Primana Grand